

- [54] **SYNTACTIC FOAM ENERGY ABSORBER**
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[73] **Assignee:** **Hughes Aircraft Company**, Los Angeles, Calif.
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[58] **Field of Search** **523/218, 219; 521/54, 521/55**

[56] **References Cited**

U.S. PATENT DOCUMENTS

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[57] **ABSTRACT**

An expendable syntactic foam energy absorber having application to vehicles comprising first hollow ceramic microspheres and substantially smaller hollow ceramic microspheres distributed to fill the interstices between the first microspheres. An elastomeric binder is blended into the microsphere intermix to fill in any residual interstices between the microspheres while binding the microspheres in substantially abutting contact and leaving substantially no room for the binder to move.

15 Claims, 1 Drawing Sheet

